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PTO/SB/05 (11-00)
Approved for use through 10/31/2002. OMB 0651-0032
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No. GS 149
First Inventor Fwu-Iuan Hsieh et al.
Title METHOD OF FORMING NARROW TRENCHES IN
Express Mail Label No. ET477939696US

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO: Assistant Commissioner for Patents
Box Patent Application
Washington, D.C. 20231

1. ☒ Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original, and a duplicate for fee processing)
2. ☐ Applicant claims small entity status.
See 37 CFR 1.27.
3. ☒ Specification [Total Pages 14]
(preferred arrangement set forth below)
 - Descriptive title of the invention
 - Cross Reference to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to sequence listing, a table, or a computer program listing appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
4. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 6]
5. Oath or Declaration [Total Pages 3]
 - a. ☒ Newly executed (original or copy)
 - b. ☐ Copy from a prior application (37 CFR 1.63(d))
(for continuation/divisional with Box 18 completed)
 - i. ☐ **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
6. ☐ Application Data Sheet. See 37 CFR 1.76

7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)
 - a. ☐ Computer Readable Form (CRF)
 - b. Specification Sequence Listing on:
 - i. ☐ CD-ROM or CD-R (2 copies); or
 - ii. ☐ paper
 - c. ☐ Statements verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

9. ☒ Assignment Papers (cover sheet & document(s))
10. ☐ 37 CFR 3.73(b) Statement (when there is an assignee) ☒ Power of Attorney
11. ☐ English Translation Document (if applicable)
12. ☒ Information Disclosure Statement (IDS)/PTO-1449 ☒ Copies of IDS Citations
13. ☐ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)
15. ☐ Certified Copy of Priority Document(s)
(if foreign priority is claimed)
16. ☐ Request and Certification under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
17. ☐ Other:

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: _____

Prior application information: Examiner _____ Group / Art Unit _____

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. CORRESPONDENCE ADDRESS

☒ Customer Number or Bar Code Label 27774 or ☐ Correspondence address below
(Insert Customer No. or Attach bar code label here)

Name

Address

City

State

Zip Code

Country

Telephone

Fax

Name (Print/Type) Karin L. Williams

Registration No. (Attorney/Agent) 36,721

Signature

Karin L. Williams

Date

11/20/01

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box

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**FEE TRANSMITTAL
for FY 2002**

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT**\$798.00****Complete if Known**

Application Number	Unassigned
Filing Date	Filed Herewith
First Named Inventor	Fwu-luan Hsieh et al.
Examiner Name	Unassigned
Group Art Unit	Unassigned
Attorney Docket No.	GS 149

METHOD OF PAYMENT

- 1.
- ☒
- The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:

Deposit
Account
Number**Mayer Fortkort & Williams, PC**Deposit
Account
Name**50-1047**

- ☒
- Charge Any Additional Fee Required
-
- Under 37 CFR §§ 1.16 and 1.17

☐ Applicant claims small entity status.
See 37 CFR § 1.27

- 2.
- ☐
- Payment Enclosed:

☐ Check ☐ Credit card ☐ Money
Order ☐ Other**FEE CALCULATION****1. BASIC FILING FEE**

Large Entity Small Entity

Fee Fee Fee Fee Fee Description
Code (\$) Code (\$)

101	740	201	370	Utility filing fee	740.00
106	330	206	165	Design filing fee	
107	510	207	255	Plant filing fee	
108	740	208	370	Reissue filing fee	
114	160	214	80	Provisional filing fee	

SUBTOTAL (1) \$740.00**2. EXTRA CLAIM FEES**

Total Claims	Extra Claims	Fee from below	Fee Paid
21	-20** = 1	18.00	18.00
Independent Claims	2 - 3** = 0	84.00	0.00
Multiple Dependent			

Large Entity Small Entity

Fee Fee Fee Fee
Code (\$) Code (\$)

103	18	203	9	Claims in excess of 20	
102	84	202	42	Independent claims in excess of 3	
104	280	204	140	Multiple dependent claim, if not paid	
109	84	209	42	** Reissue independent claims over original patent	
110	18	210	9	** Reissue claims in excess of 20 and over original patent	

SUBTOTAL (2) \$18.00

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)**3. ADDITIONAL FEES**

Large Entity Small Entity

Fee Fee Fee Fee

Code (\$) Code (\$)

Fee Description

Fee Paid

105	130	205	65	Surcharge - late filing fee or oath	
127	50	227	25	Surcharge - late provisional filing fee or cover sheet	
139	130	139	130	Non - English specification	
147	2,520	147	2,520	For filing a request for <i>ex parte</i> reexamination	
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	
115	110	215	55	Extension for reply within first month	
116	400	216	200	Extension for reply within second month	
117	920	217	460	Extension for reply within third month	
118	1,440	218	720	Extension for reply within fourth month	
128	1,960	228	980	Extension for reply within fifth month	
119	320	219	160	Notice of Appeal	
120	320	220	160	Filing a brief in support of an appeal	
121	280	221	140	Request for oral hearing	
138	1,510	138	1,510	Petition to institute a public use proceeding	
140	110	240	55	Petition to revive - unavoidable	
141	1,280	241	640	Petition to revive - unintentional	
142	1,280	242	640	Utility issue fee (or reissue)	
143	460	243	230	Design issue fee	
144	620	244	310	Plant issue fee	
122	130	122	130	Petitions to the Commissioner	
123	50	123	50	Processing fee under 37 CFR § 1.17(q)	
126	180	126	180	Submission of Information Disclosure Statement	
581	40	581	40	Recording each patent assignment per property (times number of properties)	40.00
146	740	246	370	Filing a submission after final rejection (37 CFR § 1.129(a))	
149	740	249	370	For each additional invention to be examined (37 CFR § 1.129(b))	
179	740	279	370	Request for Continued Examination (RCE)	
169	900	169	900	Request for expedited examination of a design application	

Other fee (specify) _____

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3)**\$40.00****SUBMITTED BY**

Name (Print/Type)

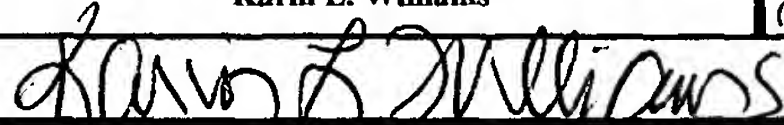
Karin L. WilliamsRegistration No.
(Attorney/Agent)**36,721**

Complete (if applicable)

Telephone

908-518-7700

Signature



Date

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John A. Fortkort †‡

‡ admitted in Maryland
‡ admitted in Minnesota
* admitted in New Jersey
§§ admitted in New York
‡ admitted in Pennsylvania
† admitted in Virginia
§ admitted in Washington, D.C.

November 20, 2001

Assistant Commissioner for Patents
Box Filing Date
Washington, DC 20231

Dear Sir:

Re: New U.S. Patent Application
Inventor: Fwu-Iuan Hshieh et al.
Filed: Herewith
Title: METHOD OF FORMING NARROW TRENCHES IN
SEMICONDUCTOR SUBSTRATES
Docket: GS 149

I hereby declare that I attempted to deposit the above-referenced new U.S. Patent Application with the United States Postal Service (USPS, Westfield, New Jersey) as Express Mail under 37 CFR 1.10 on November 20, 2001, and the USPS refused to accept this correspondence due to the recent emergency.

Per the instructions provided by the US PTO website (www.uspto.gov/september11/uspsmaildisrup.htm), the above-referenced application has been re-deposited with the USPS on November 20, 2001 as first class mail, in an envelope addressed to: Assistant Commissioner for Patents, BOX FILING DATE, Washington, DC 20231.

A November 20, 2001 filing date is respectfully requested.

Yours truly,
MAYER FORTKORT & WILLIAMS, PC*Marjorie Scariati*
Marjorie Scariati
Patent Paralegal

Enclosure

CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10)			Docket No. GS 149
Applicant(s): Fwu-Iuan Hshieh et al.			
Serial No. Unassigned	Filing Date Filed Herewith	Examiner Unassigned	Group Art Unit Unassigned
Invention: METHOD OF FORMING NARROW TRENCHES IN SEMICONDUCTOR SUBSTRATES			
<p>I hereby certify that this <u>New U.S. Patent Application</u> (Identify type of correspondence)</p> <p>is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: The Assistant Commissioner for Patents, Washington, D.C. 20231 on <u>11/20/01</u> (Date)</p> <p><u>Marjorie Scariati</u> (Typed or Printed Name of Person Mailing Correspondence)</p> <p><u>Marjorie Scariati</u> (Signature of Person Mailing Correspondence)</p> <p><u>ET477939696US</u> ("Express Mail" Mailing Label Number)</p>			
Note: Each paper must have its own certificate of mailing.			

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
(Under 37 CFR 1.97(b) or 1.97(c))

Docket No.
GS 149

In Re Application: **Fwu-Iuan Hshieh et al.**

11017 U.S.
10/010162
11/20/01

Serial No.

Unassigned

Filing Date

Filed Herewith

Examiner

Unassigned

Group Art Unit

Unassigned

METHOD OF FORMING NARROW TRENCHES IN SEMICONDUCTOR SUBSTRATES

Payment of Fee

(Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p))

- ☐ A check in the amount of _____ is attached.
- ☐ The Assistant Commissioner is hereby authorized to charge and credit Deposit Account No. _____ as described below. A duplicate copy of this sheet is enclosed.
- ☐ Charge the amount of _____
- ☐ Credit any overpayment.
- ☐ Charge any additional fee required.

Certificate of Transmission by Facsimile*

I certify that this document and authorization to charge deposit account is being facsimile transmitted to the United States Patent and Trademark Office (F

(Date)

Signature

Typed or Printed Name of Person Signing Certificate

Certificate of Mailing by ~~First Class~~ Mail

EXPRESS
I certify that this document and fee is being deposited *11/20/01* with the U.S. Postal Service as ~~first class~~ *EXPRESS* mail under 37 C.F.R. ~~1.8~~ *1.18* and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

Marjorie Scariati
Signature of Person Mailing Correspondence

Marjorie Scariati

Typed or Printed Name of Person Mailing Certificate

***This certificate may only be used if paying by deposit account.**

Karin L. Williams
Signature

Dated: *11/20/01*

Karin L. Williams Reg. No. 36,721

Mayer Fortkort & Williams, PC

251 North Avenue West, 2nd Floor

Westfield, NJ 07090

Tel.: 908-518-7700

Fax: 908-518-7795

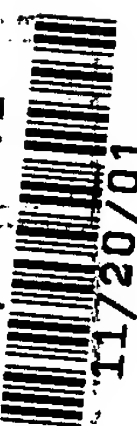
cc:

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
(Under 37 CFR 1.97(b) r 1.97(c))

Docket No.
GS 149

In Re Application Of: Fwu-Iuan Hshieh et al.

11017 U.S. PRO
10/010162



Serial No.
Unassigned

Filing Date
Filed Herewith

Examiner
Unassigned

Group Art Unit
Unassigned

Title: **METHOD OF FORMING NARROW TRENCHES IN SEMICONDUCTOR SUBSTRATES**

Address to:

Assistant Commissioner for Patents
Washington, D.C. 20231

37 CFR 1.97(b)

1. ☒ The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application other than a continued prosecution application under 37 CFR 1.53(d); within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; before the mailing of a first Office Action on the merits, or before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.

37 CFR 1.97(c)

2. ☐ The Information Disclosure Statement submitted herewith is being filed after the period specified in 37 CFR 1.97(b), provided that the Information Disclosure Statement is filed before the mailing date of a Final Action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an Action that otherwise closes prosecution in the application, and is accompanied by one of:

☐ the statement specified in 37 CFR 1.97(e);

OR

☐ the fee set forth in 37 CFR 1.17(p).